LoopStar® 750
Cost-Effective Ethernet/TDM Services at the Metro Edge

With customers demanding higher speed Ethernet services at lower price points, carriers are looking for ways to offer new services while maintaining the current revenue streams from existing services. In addition, service providers would like to extend the life of current infrastructures and be able to migrate to the next generation of networks at the appropriate time. ADC's LoopStar® 700 product family addresses all of these requirements with a cost-effective, multiservice access platform designed specifically to enable new customer edge applications while maintaining the viability of current services and infrastructures.

The LoopStar 750 is optimized for medium to large enterprises, multi-tenant buildings or service aggregation. This powerful unit is NEBS 3 certified and accommodates up to four plug-in interface cards with a full range of Ethernet and TDM interfaces to support a variety of multiservice applications:

- Ethernet services over DS1, DS3 and SONET/SDH
- Multiservice Gigabit Ethernet
- T1, E1 or J1 transport over packet networks
- Transparent LAN service
- Supports Multiprotocol Label Switching (MPLS)
- Virtual Private LAN Service (VPLS)

Benefits

- Reduces capital, operational and provisioning expenses
- Increases revenue through new data services
- Achieves quick return on investment
- Extends life of existing network investments
- Provides migration path to next generation IP/MPLS networks

- Transports ILEC-quality T1/E1/J1 services without compromise
- Low cost, flexible, easy to manage and faster to provision
- Compact, reliable stackable solution
- Centralized management and provisioning saves significant time and money

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Features

- Business-class metro Ethernet services
- Carrier-class circuit emulation over packet networks
- IP-centric architecture
- DS1, DS3, SONET/SDH or Ethernet for transport
- High density NEBS 3 platform
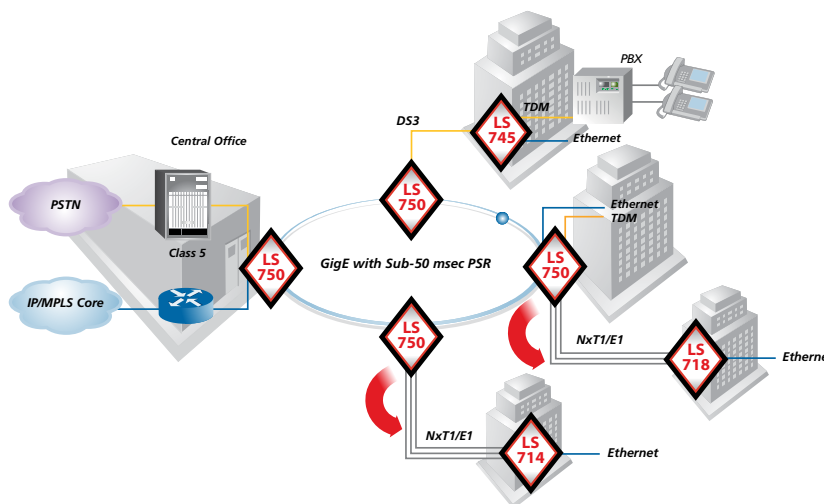- LoopStar 700 In-band or out-of-band management

Innovation for Next Generation Ethernet and IP Services

Based on a flexible, IP-centric architecture, the LoopStar 750 uses programmable processors to support new protocols, interfaces and features as they emerge. Incorporating ADC's suite of management tools, the LoopStar 750 can support diverse topologies, scale quickly and easily as the network evolves, and deliver differentiated services on a per-customer basis.

With this versatile platform, the LoopStar 750 enables service providers to:

- Deliver high-speed, business-class Ethernet services (such as Internet access, transparent LAN, storage, VLANs and tag stacking for traffic management, and VPLS).

- Support traditional T1 (E1 or J1) circuit-based voice/data/video services over Ethernet/IP with the same no compromise quality and robustness as a circuit delivered in native TDM over SONET/SDH.

- Use their installed SONET/SDH or Ethernet networks to support traditional voice and leased-line traffic, while moving toward a data-optimized network that can keep pace with customers' bandwidth needs.

- Transport multiservice traffic efficiently across a single network to reach all customers with the same services and the same service levels.

With the management suite's full range of performance statistics, fault indication, loopback diagnostics, and differentiated service provisioning and definition, the LoopStar 750 allows service providers to create a secure, reliable network that resolves today's multiservice challenges while setting the stage for migration to next-generation networking.

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Specifications

Interface Modules (4 slots)
- 1-port GigE (SFP)
- 2-port GigE (SFP, Ring only)
- 1-port OC-12c/STM-4c (SFP)
- 1-port OC-3c/STM-1 (SFP)
- 3-port DS3 (BNC)
- 8-port T1/E1 (RJ48c)
- 8-port 10/100 Base-T (RJ45)
- 8-port 100 Base-FX (Duplex LC)
- Channelized DS3

Management
- In-band or out-of-band
- SNMP
- CLI (RS-232 / Telnet)
- FTP to download multiple software images and configurations
- 10/100 Base-T management port (RJ48c)
- 2-port BITS timing interface (RJ48c)
- LoopStar 700 intelligent management

Ethernet Services
- 802.1d bridging
- 802.1p prioritization
- 802.1q VLAN tagging/stacking
- VLAN switching
- MPLS/VPLS option
- Rate-limiting per port or VLAN:
  - 1 Mb/s increments (1 to 100M)
  - 50 Mb/s increments (100 to 1000M)
- 802.3ad Link Aggregation
- Protected Switching Ring (50 m/sec)
- Spanning Tree Protocol

Circuit Emulation Services
Framed or unframed mode
- Fixed or Adaptive Jitter Buffer
- Adaptive, BITS, Loop or Internal (Stratum 4) timing modes
- Round-trip and one-way delay measurements
- Local and remote loopbacks
- ANSI t1.231 reports

Physical
- 2.2" x 17" x 20" (h x w x d)
- Dual hot-swappable power supplies
- -AC: 90-264 VAC auto ranging
- DC: -36 VDC to -75 VDC
- 75-Watt maximum power consumption
- 0° to 50° C (operating)
- -20° to 80° C (storage)
- FCC Part 15—Class A
- UL 60950
- CE Mark
- CLEI codes
- NEBS 3 certified

Ordering Information

Description	Catalog Number
LPS-750 AC Package *Includes: 1 AC power supply and AC power cord, blanking plates, 19" and 23" rack mount brackets, console cable, License for Basic Software and documentation	LPS-750-AC L1
LPS-750-48VDC Package *Includes: 1 -48VDC power supply, blanking plates, LPS-750-48DC L1 19" and 23" rack mount brackets, console cable, License for Basic Software and documentation	LPS-750-48DC L1
Interface Cards LoopStar 5000/2200/2100 Blank Interface Slot Faceplate 10/100 BaseT Ethernet-8 port 100BASE FX SM-8 port, fixed optics 100BaseFX MM-8 port, fixed optics Gigabit Ethernet, SFP-1 port, w/o optics T1/E1/J1-8 port (with NxT1/E1 Uplink) DS3, Clear Channel-3 port Dual Gigabit Ethernet Ring, SFP-2 port w/o optics DS3, Channelized, MLPPP only, support 8 bundles of up to 8 T1s OC-3/STM-1, Clear Channel-1 port, w/o optics OC-12/STM-4, Clear Channel-1 port, w/o optics	LPS-7INF-BLNK L1 LPS-7INF-FE L1 LPS-7INF-100SM L1 LPS-7INF-100MM L1 LPS-7INF-Gig L1 LPS-7INF-T1E1 L1 LPS-7INF-DS3 L1 LPS-7INF-2Gig L1 LPS-7INF-DS3C L1 LPS-7INF-STM1 L1 LPS-7INF-STM4 L1

SPEC SHEET

Web Site: www.adc.com

From North America, Call Toll Free: 1-800-366-3891 • Outside of North America: +1-952-938-8080

Fax: +1-952-917-3237 • For a listing of ADC's global sales office locations, please refer to our Web site.